AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An output filter for a delta sigma modulator, comprising:

a first and a second constant current source having first and second outputs, respectively;

a FIR filter having a plurality n of delay element arranged in cascade, where n is a whole number greater than two, each element being operative to output data of the delta sigma modulator by controlling currents via n switches from the first and second constant current sources on the basis of each of the output data to thereby generate a plurality of weighted currents that are weighted according to a filter characteristic, the weighted currents being added separately for inverted and non-inverted signals and outputted separately at an output side of the FIR filter[[.]]; and

a current-to-voltage conversion unit, said unit having an input side coupled to the output side of the FIR filter and comprising a full differential operational amplifier and feed back resistors, said amplifier having a pair of inputs, each input coupled to a respective one of each separate output of said FIR filter and having an output side.

2. (canceled).

3. (currently amended): An output filter for a delta sigma modulator as claimed in Claim 2 1, further comprising a single differential conversion operational amplifier on the output side of the full differential operational amplifier.

4. (currently amended): A digital signal processor comprising an output filter for a delta sigma modulator, as claimed in any of Claim 1 to or Claim 3.

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5. (previously presented): An output filter for a delta sigma modulator as claimed in Claim 1, wherein each said n delay element comprises a flip-flop and each said n switches comprises a respective pair of MOS transistors.

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- 6. (previously presented): An output filter for a delta sigma modulator as claimed in Claim 5, wherein said flip flop generates two outputs and each said output is coupled to a gate of a respective one of the MOS transistors.
- 7. (previously presented): An output filter for a delta sigma modulator as claimed in Claim 1, wherein each said constant current source comprises a common source for generating said plurality of weighted currents.